

# Comparisons of Job Characteristics

Focus Occupation: **Mathematical Technicians (15-2091)**

Associated Occupation: **Statisticians (15-2041)**

[Compare Knowledge](#)

[Compare Skills](#)

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<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Mathematical Technicians (15-2091)

Associated Occupation: Statisticians (15-2041)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mathematics	9.2	15.7	22.0	>>	Current knowledge level is likely more than sufficient
Computers and Electronics	8.4	15.1	14.4	0	Current knowledge level may be sufficient
Biology	3.7	7.1	1.0	<<	Extensive education and/or training may be required
Medicine and Dentistry	3.7	6.2	1.0	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 75

Focus Occupation: Mathematical Technicians (15-2091)

Associated Occupation: Statisticians (15-2041)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mathematics	6.2	15.7	20.5	>>	Skill level is likely more than sufficient
Critical Thinking	10.8	14.6	18.0	>>	Skill level is likely more than sufficient
Programming	2.2	10.8	9.5	<	A higher skill level may be required
Science	4.5	10.6	13.0	>	Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Abilities

Similarity of Focus Occupation to Associated Occupation: 72

**Focus Occupation: Mathematical Technicians (15-2091)**  
**Associated Occupation: Statisticians (15-2041)**

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mathematical Reasoning	6.3	16.1	23.0	>>	Current ability level is likely more than sufficient
Deductive Reasoning	10.6	15.4	15.5	0	Current ability level may be sufficient
Inductive Reasoning	10.2	14.4	5.9	<<	Extensive improvement in abilities may be required
Written Comprehension	11.0	14.4	7.6	<<	Extensive improvement in abilities may be required
Information Ordering	9.9	14.2	7.8	<<	Extensive improvement in abilities may be required
Written Expression	9.8	13.9	4.6	<<	Extensive improvement in abilities may be required
Number Facility	6.3	13.0	21.8	>>	Current ability level is likely more than sufficient
Category Flexibility	9.0	12.2	5.1	<<	Extensive improvement in abilities may be required
Flexibility of Closure	7.8	10.2	3.9	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 95

**Focus Occupation: Mathematical Technicians (15-2091)**  
**Associated Occupation: Statisticians (15-2041)**

Work Activities	Exclusivity of Activity
Analyze scientific research data or investigative findings	27
Collect scientific or technical data	30
Communicate technical information	4
Compile numerical or statistical data	38
Create mathematical or statistical diagrams or charts	43
Develop or maintain databases	30
Develop tables depicting data	33
Explain complex mathematical information	30
Prepare reports	8
Use computers to enter, access or retrieve data	3
Use knowledge of investigation techniques	16
Use mathematical or statistical methods to identify or analyze problems	30
Use quantitative research methods	35
Use relational database software	26
Use scientific research methodology	21
Use spreadsheet software	18

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: n/a

**Focus Occupation: Mathematical Technicians (15-2091)**

**Associated Occupation: Statisticians (15-2041)**

Tools and Technologies	Exclusivity
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Tools and technology data is unavailable for one or both occupations.	
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Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.